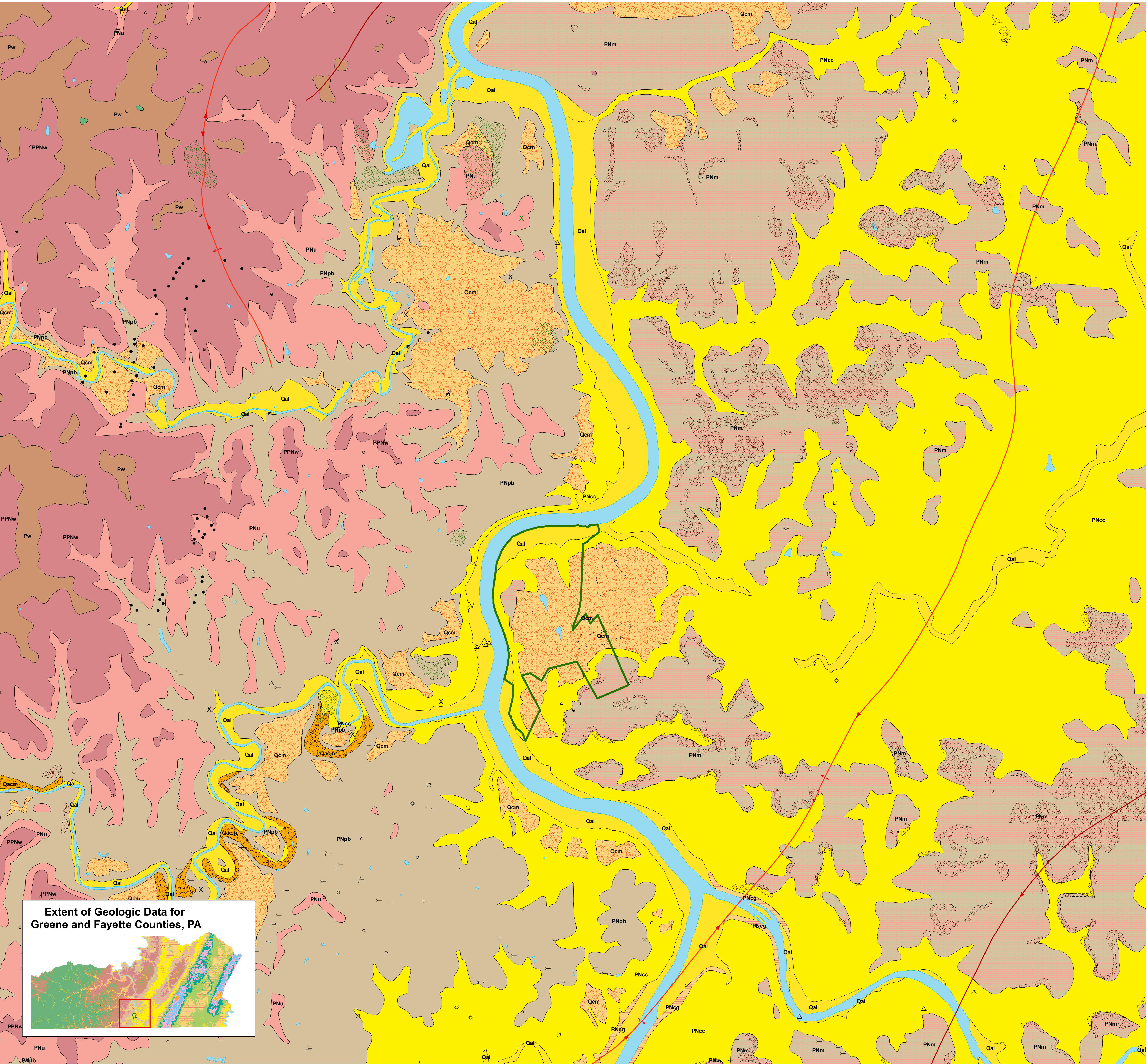


Geologic Map of Friendship Hill NHS



FRHI Mine Point Features

- well
- groundwater testing well
- gas well
- oil well
- gravel pit
- quarry
- adit
- shaft
- mine
- mine dump
- tipple; mine related structure

FRHI Fault and Fold Map Symbology

- anticline symbol
- fold plunge arrowhead
- left-lateral fault symbol
- syncline symbol

FRHI Linear Dikes

- Queried

FRHI Folds

- anticline, known or certain
- syncline, known or certain

FRHI Faults

- unknown offset/displacement, known or certain
- left-lateral strike-slip fault, known or certain
- left-lateral strike-slip fault, concealed
- left-lateral strike-slip fault, approximate and queried

FRHI Geologic Contacts

- known or certain
- approximate
- concealed
- approximate and queried
- concealed and queried
- quadrangle/map boundary
- shoreline
- subaqueous

FRHI Mine Area Feature Boundaries

- FRHI Mine Area Feature Boundaries

Friendship Hill NHS Boundary

FRHI Mine Area Features

- area mine
- mine dump
- tailings pond

FRHI Geologic Units

- Qacm: Alluvium and Carmichaels Formation Undifferentiated
- Qal: Alluvium
- Qcm: Carmichaels Formation
- Pg: Greene Formation
- Pw: Washington Formation
- PPNw: Waynesburg Formation
- PNm: Monongahela Group
- PNu: Uniontown Formation
- PNpb: Pittsburgh Formation
- PNcc: Casselman Formation
- PNcg: Glenshaw Formation
- PNa: Allegheny Group
- PNp: Pottsville Group
- Mmc: Mauch Chunk Formation
- Mb: Burgoon Sandstone
- MDso: Shenango Formation Through Osgwayo Formation, Undivided
- Dck: Catskill Formation
- Df: Foreknobs Formation
- Water

This map graphically presents digital geologic data prepared as part of the NPS Geologic Resources Division's Geologic Resource Evaluation Program. The source map used in creation of the digital geologic data product was:

McElroy, T.A., 1988, Groundwater Resources of Fayette County, Pennsylvania, Pennsylvania Geological Survey, Water Resource Report W 60, 1:50,000 scale

Stone, J.D., Williams, D. R., Buckwalter, T.F., Felbinger, J.K., and Pattison, K.L., 1987, Water Resources and the Effects of Coal Mining, Greene County, Pennsylvania, Pennsylvania Geological Survey, W 63, 1:50,000 scale

Digital geologic data and cross sections for Friendship Hill National Historic Site, and all other digital geologic data prepared as part of the Geologic Resource Evaluation Program, are available online at the NPS Data Store: <http://science.nature.nps.gov/nrddata/>

